Original/Duplicate/Triplicate
CONTRACT CERTIFICATE

No. ***First & Final Bill*** (For Other Works) Date……..2020

Division: **BBMP, Byataranyanapura** Sub-Division: **BBMP, Vidyaranyapura**

Bill Received No. Dated Divisional Cash Book Voucher No…….. Dated…….
Sub Divisional **Work Code: 009-20-000035**

Schedule Docket No. Head of Account: **P-1878** **Est.Cost: Rs. 99.50 Lakhs** D.R.No. :

Name of Work (as per sanctioned estimate: **Improvement to Roads, Drains and other Development Works in Kempegowda Nagara Calony and surrounding areas in Ward No.09 (Vidyaranyapura).**

Name of Contractor and Full Address: ***Executive Engineer, Karnataka Rural Infrastructure Development Limited, # 280, 59th Cross Road, 17th 'C' Main Road, 3rd 'Y' Block, Rajajainagara, Bangalore - 10.***

Reference to Agreement No. **EE/BTP/BBMP/KRIDL/WO/197/2019-20** **Dated: 01.02.2020**

Certified that the measurements were taken by me on 02/06/2020 and recorded of **Pages** A98825 **to** A98834 of measurement Book No. A969/19-20 and that the work is satisfactorily executed.

Contractor **Officer-in-charge of work**

Certified that the measurement were taken by me on ……and found correct. The work is satisfactorily executed.

Certified that the quantities of materials shown in column 3 of Account have been actually brought to site of the work and the contractor has not previously received any advance on this security. These materials are of and imperishable nature and are all required for immediate use on the work in connection with items for finished work have been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Division Officer

Assistant Executive Engi…
Vidyaranyapura Sub Divi…
BBMP, Bangalore - 97

II Memorandum of Payment

1)	Total value of work done or supplies made as per account within		
2)	Deduct amount to be held in reserve being ……percent Rs……		
3)	" Balance		
4)	Deduct Payment:		
	a. Amount of previous payment as in the Office Cash Book Voucher No……Dated……S.D. No…… Amount adjusted towards cash advance recovery of		
	b. Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.		
5)	Balance being unpaid value of work done held in reserve.		
6)	Deduct cash advance made on the Office cash Book Voucher No…… dated……less adjustments.		
7)	Net amount due to or from Contractor un adjustments items.		
8)	Advance to Contractor for materials brought to site (as detailed) within.		
9)	Value of Government materials supplied.		
	Total amount adjusted -		

Contractor's Signature

Received Rs…….. (in words)…….
……
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands) (For use in the Office)

Witness
1.
2.
Dated Signature of Contractor

Stamp

Paid by me by Cheque No……Dated……
Cash Rs……..
Dated……

Initials of Officer making payment **Executive Engineer**

Sl. No.		Unit
1	Dismantling of existing Reiforced cement concrete grade M-20 above structures like culverts, bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceable material and stacking the serviceable material with all lifts complete as per specifications	Cum
2	Removing & Refixing stone slabs of drains and pointing in C.M (1:3)	Sqm
3	Earthwork excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications.	Cum
4	Dismantling of cement concrete pavement by mechanical means using pneumatic tools, breaking to pieces not exceding 0.02 cum in volume and stock pilling at designated locations and disposal of dismantled mateirals stacking serviceble and unserviceble materials seperatly complete as per specifications.	Cum
5	Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 including cost and conveyance of all materials, labour for all items of work, HOM of equipment with all lead and lift, loading and unloading and all other incidental charges etc., complete as per specification and directions of the Engineer-in-charge of the work.	Cum
6	0400 Stone dust / Grit	Cum
7	Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.	Cum
8	Providing and laying in position plain cement concrete of mix 1:3:6 with opc cement @220kgs with 20 mm and down size graded granite metal course aggregate @0.84cum and fine aggregates @0.56 cum machine mixed,laid in layers not exceeding 15cms thick well compacted in foundation,plinth and cills including cost of all materials,labour,HOM OF machinary, curing complete as per specification	Cum
9	Providing and constructing granite / trap / basalt size stone masonry in basement with cement mortar 1:6, edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.	Cum
10	Providing ruled pointing 20 mm deep to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specification	Sqm
11	Providing precast slab of 250mm thick including cost of all materials, labour, curing, transportation, loading unloading, etc.,complete as per the direction of engineer in charge - (Rate Analysis Approved).	Sqm
12	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregtes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, plinth and cills, ncluding cost of all materials, labour, HOM of machinery, curing complete as per specifications.	Cum
13	Providing T .M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 Complete with all lead and lift and as per the direction of the Engineer-in-Charge.	Tonne
14	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth cills and string courses cost of all materials, labour complete as per specifications.	Sqm
15	Providing and laying in position reinforced cement concrete of Design Mix M20 with OPC @ 320kgs, with 20mm and down size graded granite metal coarse aggregates @0.69cum and fine aggregtes @ 0.460 cum, with super plasticisers @ 3 liters confirming to IS 9103-1999 reafirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings, pedastals, retaining walls, return walls, walls (any thickness) including attached pilasters, columnspillars, posts, struts, buttresses, bed blocks, anchor blocks & plinths etc., including cost of all materials, labour, HOM curing, complete but excluding cost of reinforcement as per specifications.	Cum

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
-	-	29.25	1684.34	49267.00	29	49267.00	
-	-	347.49	111.30	38676.00	347.49	38676.00	
-	-	919.28	207.60	190843.00	919.28	190843.00	
-	-	59.10	952.94	56319.00	59.10	56319.00	
-	-	189.69	475.94	90281.00	189.69	90281.00	
-	-	129.60	1060.00	137376.00	129.60	137376.00	
-	-	166.20	2001.28	332613.00	166.20	332613.00	
-	-	153.41	5421.90	831774.00	153.41	831774.00	
-	-	48.60	5811.98	282462.00	48.60	282462.00	
-	-	9.00	150.52	1355.00	9.00	1355.00	
-	-	7.50	5418.00	40635.00	7.50	40635.00	
-	-	61.60	5747.32	354035.00	61.60	354035.00	
-	-	9.26	75223.96	696574.00	9.26	696574.00	
-	-	1548.83	379.48	587750.00	1548.83	587750.00	
-	-	142.14	5998.54	852632.00	142.14	852632.00	

Sl. No.		Unit
16	Construction of un-reinforced plain cement concrete pavement, using grade concrete M20 over a prepared base with OPC course aggregate at 0.69 cum fine aggregates at 0.46 cum course and fine aggregtes confirming to IS : 383-2016, with superplastisiser @3lts confirming to IS9103-1999 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). & Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished with floaters in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane of impermiable plastic sheet of 125 micron selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. (with OPC 320Kg per cum GGBS 40 Kg/cum confirming to IS: 12089 course aggregate @ 0.69cum and fine aggregate @ 0.46cum)	Cum
17	Providing and laying pre-cast drain cover slabs of 100mm thickness in C.M (1:3) including cost and of all materials, labour,curing transportaion loading and unloading etc. as per directions of the Engineer-in-charge of the work.	Sqm
18	Providing 20mm thick cement plaster in single coat with cement mortar 1:3, to stone masonry & concrete surface including rounding off corners wherever required smooth rendering, including providing and removing scaffolding, cost of materials, labour, curing etc., complete as per specifications	Sqm
19	Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300-2 complete as per specifications, including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of modified proctors density.	Cum
20	Providing and fixing of wall cladding using 20 mm thick gang saw water cut granite in CM 1:3 proportion cut to required shape patron with paper joint finished with cement mortar using white cement and colour pigments to match the colour of slab making through jointing with sealant, making holes 25mm × 12mm grooves in joints including curing etc., complete - with Sadarahalli granite 20mm thick gang saw with minimum width 1200	Sqm
21	Providing and fixing stainless steel 304 grade for staircase railings, balconies, ramps, with hand rail, 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of and electrical charges, etc., complete as per specifications.	Sqm
22	Cutting road surface for pipe line trenches and disposing of the excavated stuff as directed including barricading, danger lighting etc.,in the following qualifications Concrete road	Cum
23	Earthwork excavation for pipeline trenches (except building works) including disposing on back up to a lead of 30 mts including danger lighting and using sight rails and boning roads including shoring, strutting, bailing out water at every 100 mts. Wherever necessary as directed in the following strata	Cum
23 A	Considering 30% for Hard Rock	Cum
24	Supplying of following Dia meters S&S RCC SPUN/VIBRATED CASTPIPES (REINFORCED) of458;1998 amendments NP- 3 class conforming to IS using ordinary port land cement and conveying to worksite rolling and lowering into trenches, laying true to line and level including loading and unloading at both destinations and jointing of pipes & specials including cost of specials including perfect linking of joints with jack to correct position including coat of jointing materials i.e., Rubber rings conforming to IS 5382 for S&S RCCpipes with a lead and lifts as RCC pipes with a lead and lifts as directed and giving necessary hydraulic testing & commissioning etc, complete(contracter will make hisown arrangements for procuring water for testing)before execution of work, contractor shall carry out the contractor shall carry out the survy and will be paid extrass per the sapearte	Rmt
25	KSRB 12-5 : Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top with table moulded nonmodular bricks of 50 class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and downsize granite metal and making necessary channel in cement concrete M 50 with 20mm and downsize granite metal finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diametre confirming IS :12592, total weight cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paidseparately) Specification No. KBS 12.4, deep 0.91m	No,s

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
-	-	91.88	5128.28	471186.00	91.88	471186.00	
-	-	678.58	2337.00	1585841.00	678.58	1585841.00	
-	-	28.00	306.34	8578.00	28.00	8578.00	
-	-	72.00	344.50	24804.00	72.00	24804.00	
-	-	78.28	2291.72	179396.00	78.28	179396.00	
-	-	35.40	6382.26	225932.00	35.40	225932.00	
-	-	66.31	1033.00	68498.00	66.31	68498.00	
-	-	323.94	558.54	180933.00	323.94	180933.00	
-	-	138.88	1487.00	206515.00	138.88	206515.00	
-	-	213.40	1659.00	354031.00	213.40	354031.00	
-	-	8.00	15587.30	124698.00	8.00	124698.00	

Sl. No.		Unit
26	KSRB 12-5 : Constructing brick masonry circular type manhole 0.91m internal dia at bottom and 0.56m dia at top with table moulded nonmodular bricks of 50 class designation 50 in cement mortar 1:4, inside cement plastered 12mm thick with cement mortar 1:3, finished with a floating coat of neat cement, foundation concrete M 10 using 40mm and downsize granite metal and making necessary channel in cement concrete M 50 with 20mm and downsize granite metal finished with a floating coat of neat cement, with S.F.R.C. cover and frame (heavy duty, HD-20 grade designation) 560mm internal diametre confirming IS :12592, total weight cover and frame to be not less than 182 kg, fixed in cement concrete 1:2:4, 20mm and downsize broken granite metal, providing and removing centering, shuttering including cost of materials, labour charges, HOM complete as per specifications. (Excavation, footrests and 12mm thick cement plaster on the external surface shall be paid separately) Specification No. KBS 12.4, deep 1.67m	No,s
27	KSRB15-3 : Providing 15mm thick cement plaster in single coat with cement mortar to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.	Sqm
28	Providing and fixing chorinated poly vinyl Chloride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings, this includes jointing of pipes and fittings with one step solvent cement, trenching, refilling & testing of joints complete. (external work)..	M
29	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwedd end) nominal bore including cost of all materials, labour and HOM with all leads complete as per specifications	No,s
30	C.P Brass tap with union	No,s
31	KSRB 2-4 : Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. including cost of all labour complete as per specifications.	Cum
32	Dismantling the damaged or collapsed manholes of 1.20Mtrs dia conical in shape and reconstruction of the same with machine made wire cut brick in shape 1:4 as per design and specification of new manholes of 1:2 Mtrs dia with old frames and covers excluding concrete 1:3:6	No,s
33	Hire charges for 2HP Dewatering pump to bail out water at leacking pits inclusive of hire charges, cost of fuel Tranaporattion charges, oprater charges etc complstee	D
	Total	
	GST 12%	
	KRIDL Charges @ 4%	
	Grand Total	

CERTIFICATE

1. Certified that the above work done satisfactory and no materials issued from departmentally.

AE W-09

Previous Measurement		Present Measurement			Total Upto Date		Remarks
Qty.	Cost	Qty.	Rate Rs. P.	Amount	Qty	Cost	
-	-	13.00	25741.04	334634.00	13.00	334634.00	
-	-	37.80	248.04	9376.00	37.80	9376.00	
-	-	140.00	457.92	64109.00	140.00	64109.00	
-	-	6.00	248.04	1488.00	6.00	1488.00	
-	-	60.00	269.24	16154.00	60.00	16154.00	
-	-	370.24	128.26	47487.00	370.24	47487.00	
-	-	4.00	12694.00	50776.00	4.00	50776.00	
-	-	9.00	6500.00	58500.00	9.00	58500.00	
				8555528.00		**8555528.00**	
				1026663.00		**1026663.00**	
				342221.00		**342221.00**	
				9924412.00		**9924412.00**	

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore-97